

WHAT IS CLAIMED IS:

1. A waterproof connector comprising:
a housing (11, 13);
a mating housing (31) connectable with the housing (11, 13); and
a loop-shaped sealing member (26, 40) including a sealing part (27) mounted on the housing (11, 13) and sealed elastically between said housing (11, 13) and said mating housing (31) and a lock (28a, 41a) connected to said sealing part (27) and locked to an engaging hole (14a) on said housing (11) for preventing said sealing part (27) from slipping off said housing (11, 13), wherein said lock (28a, 41a) of said sealing member (26, 40) is made of a highly rigid material.
2. The waterproof connector of claim 1, wherein a reinforcing portion (28, 41b) made of the same material as a material for said lock (28a, 41a) is formed integrally with said lock (28a, 41a) at both sides of said lock (28a, 41a) in a circumferential direction thereof; and said reinforcing portion (28, 41b) being fixed to said sealing part (27).
3. The waterproof connector of claim 2, wherein said reinforcing portion (28) is fixed to an entire periphery of a rear end of said sealing part (27).
4. The waterproof connector of claim 2, wherein said lock (28a, 41a) is fixed to said sealing part (27) by using a two-color molding method.
5. The waterproof connector of claim 1, wherein the mating housing (31) is formed from a cast metal.
6. The waterproof connector of claim 5, wherein the mating housing (31) is formed from cast aluminum.

7. The waterproof connector of claim 1, wherein the lock (28a, 41a) is formed from a rigid synthetic resin, and wherein the sealing part (27) is formed from an elastomeric rubber.

8. The waterproof connector of claim 7, wherein the lock (28a, 41a) is molded integrally with the sealing part (27), such that said sealing member (26, 40) defines a continuous matrix of rubber and resin materials.

9. The waterproof connector of claim 1, wherein the lock (28a, 41a) includes a slit (28a2) for facilitate deflection during mounting the sealing member (26, 40) on the housing (11, 13).

10. A waterproof connector, comprising:

a housing (11) having outer and inner housings (12, 13) connected to one another by a wall (14), the wall (14) being formed with a plurality of engaging holes (14a) formed therethrough;

a mating housing (31) formed from a metal material and being connectable with the housing (11) between the outer and inner housings (12, 13); and

a loop-shaped sealing member (26, 40) including an annular rubber sealing part (27) mounted on around an outer surface of the inner housing (13) and sealed elastically between said inner housing (13) and in inner surface (31f) of said mating housing (31) and a rear part (28, 41) formed from a rigid synthetic resin and molded integrally with the rubber sealing part (27), the rear part (28, 41) including at least one lock (28a, 41a) locked to the engaging hole (14a) on said housing (11) for preventing said sealing part (27) from slipping off said inner housing (13).

11. The waterproof connector of claim 10, wherein the rear part (28) is integral with annular the rubber sealing part (27) entirely around an annular periphery of the annular rubber sealing part (27).

12. The waterproof connector of claim 10, wherein the rear part (41) is integral with the annular rubber sealing part (27) at two diametrically spaced arc-shaped reinforcing parts (41b) on the annular rubber sealing part (27).

13. The waterproof connector of claim 13, wherein the mating housing (31) is formed from cast aluminum.

14. The waterproof connector of claim 10, wherein the lock (28a, 41a) includes a slit (28a2) for facilitate deflection during mounting the sealing member (26, 40) on the housing (11, 13).